

Docket No.: 42P13377

AMENDMENTS TO THE CLAIMS

Listing of claims:

1. - 15 (Cancelled)

16. (Original) An optical probe comprising:
a prism having a rounded top; and
a first waveguide in a bottom portion of the prism, the rounded top to focus light entering the prism into first waveguide.

17. (Original) The optical probe of claim 16, wherein the prism is at least partially made of sapphire, high density glass, LiNbO_3 , or rutile.

18. (Original) The optical probe of claim 16, further comprising:
a second waveguide in the bottom portion of the prism, wherein the rounded top constitutes more than one focus to couple light into the first waveguide and the second waveguide.

19. (Original) The optical probe of claim 16, wherein the light entering the rounded top is redirected approximately 90 degrees by the prism and the first waveguide.

20. (Original) The optical probe of claim 16, wherein the rounded top comprises a microlens array.

21. (Original) A method of making an optical probe, the method comprising:
forming a lens surface on a prism; and
forming a waveguide in a bottom portion of the prism.

22. (Original) The method of claim 21, wherein the waveguide is formed by diffusion or ion exchange.

Docket No.: 42P13377
Appl. No.: 10/040,398

4

Docket No.: 42P13377

23. (Original) The method of claim 21, wherein the waveguide is formed by ion implantation.
24. (Original) The method of claim 21, wherein the waveguide is formed by deposition.
25. (Original) The method of claim 21 further comprising:
forming a second waveguide in the bottom portion of the prism.
26. (Original) The method of claim 21, wherein forming the lens surface on the prism further comprises
forming a lens surface having more than one focus.
27. (Original) The method of claim 21, wherein forming the lens surface on the prism further comprises
forming a lens surface having a microlens array.

Docket No.: 42P13377
Appl. No.: 10/040,398

5